

## Standley Household and Butcher Shop Water Usage

According to the DNRC website, an exempt well usage is limited to 35 gpm and 10 acre feet per year. We are family of 5.

There are 325851.42 gallons in 1 acre foot

35 gpm = 50,400 gallons/ day

USGS says on average 1 person uses 80-100 gallons per day (usgs.gov).

1 person = 100 gal/day x 365 days/ year = 36,500 gal/ year

36,500gal/ year / 325851.42 gal/ acre foot = .11201 acre feet / year

.11201 acre feet/ year/ person x 5 people = .56005 acre feet/ year for a family of 5

Estimated water usage per species that will be processed at our butcher facility:

4-6 Beef (450 gal each)      6 x 450 = 2700

3-4 Hogs (200 gal each)      4 x 200 = 800

3-4 Lambs (150 gal each)      4 x 150 = 600

Total 4100 gal / week / 7 days/ week = 584.11 gal / day

4100 gal x 52 weeks = 213,200 gal/ year

Total water usage for the butcher facility:

213,200 gal/ year / 325851.42 gal/ acre foot = .6543 acre feet / year

Total usage for household and butcher shop:

.56005 acre feet + .6543 acre feet = 1.21435 acre feet / year

In conclusion, DNRC states an exempt well is allowed 10 acre feet/year. We will be well below that limit with both our home and with adding the butcher facility at just over 1 acre foot annually of water usage. Additionally, we can draw up to 35 gallons a minute from an exempt well. We have a 20 gallon/minute pump in our well. On average, we will be using 1,084 gallons/day, which is well under the 35 gallon/minute usage limit. These numbers are based on the butcher facility being in operation 52 weeks/year, which is more than our business hours will require. Therefore, we are confident we can run this business efficiently and prudently in regard to water usage.

## Hobbs, Amber R.

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**From:** Todd Standley <toddstandley86@gmail.com>  
**Sent:** Wednesday, October 28, 2020 2:59 PM  
**To:** Hobbs, Amber R.  
**Subject:** Re: Comment Concerning Waste

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

It should read 5 - 50 gallon barrels.

On Wed, Oct 28, 2020, 1:31 PM Hobbs, Amber R. <[ahobbs@cascadecountymt.gov](mailto:ahobbs@cascadecountymt.gov)> wrote:

Good Afternoon Todd,

I received a comment from a property owner, that might have talked with you, that there is possibly a typo on the amount of waste that will be produced (5, 5 gallon barrels per week). If this is the case, I will need to note the change when I present the Staff Report tomorrow morning. If not, and 5, 5 gallon barrels per week is the correct estimate, I will keep the report how it currently is. Please let know as soon as possible.

Thank you,

*Amber Hobbs*

Cascade County Planner

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